1948.

File No. 620/36-V

B CLASS

P.W DEPARTMENT

E(BRANCH (1)

Subject:— 1) Examinations

Electrical Supervisors and

Wiremen.

Rules in con. with —

2) Indian Military Rules 1937.

B[K]- 1948

File No. 620/36—V E. B (1)

Ltd, Secit. Slip. 21 A

Std. Sectt. 78 a.

G.R., G.D., No. 2408, dated 22-6-22.]

Correspondence

DOCKET SHEET

Subject :—

File No. 620/36-V

P.W DEPT.

E BRANCH. (1)

References :— original file sent to Maharashtra.

Date.	To whom sent.	Notes and instructions.

Extract para 15 (i) (iv) (b) of the Report of the Standardisation Sub Committee of the Board of Technical and Industrial Training, Bombay Re: Higher Certificate Course.

"This course should be of one year's duration and should prepare wiremen holding the Lower Certificate for the Supervisor's License granted by the Licensing Board of the P.W.D.

The existing Electrician's Course is both part-time and full time and in both cases of one year's duration. This arrangement should continue, the award in both cases being re-designated a Higher Certificate.

The Licensing Board holds its own examination in addition to prescribing the practical training required of candidates sitting for the examination. There is no reason why two Government Boards should hold two different examination of the Licensing Board should in our opinion be discontinued and the Higher Certificate course of the Board of Technical and Industrial Training should be accepted by the Licensing Board as qualifying a candidate for the Supervisor's License, provided he possesses the necessary practical training. Should however Government decide that the Licensing Board should continue to hold its own examination we recommend that holders of the Higher Certificate of the Board of Technical and Industrial Training should be exempted from such examination.

The Licensing Board should be consulted by the Board of Technical Industrial Training in framing the

the syllabus of studies for its own course and fixing its duration standard of examination, etc.

Below extract para 15(1)(iv)(b) of the Report of the Standardisation Sub Committee of the Board of Technical and Industrial Training, Bombay.

Educational Department,
18, Queens Garden,
Poona, 2nd September 1946.

Forwarded to the P.W.D. for early remarks.

Sd/-

Deputy Secretary to the Government of Bombay,
General and Educational Departments.

To

P. W. D.

ADS/-

620/36/35856.

El. Br.O's. P.W.D.

The El.Engr. to Govt. may, in the first instance, be requested u.o. to offer his remarks in this con.

Id/-
11/9/46.

Id/-
11/10/46.

U.O. to the El. Engr. dated 12-9-46.

Below U.O.R. No.620/36/35856. dated the 12th September 1946, from Government in the Public Works Department.

No. G. 2a/2542 of 1946.
Bombay 8th October 1946.

Returned with compliments.

2. The Licensing Board has been appointed to grant certificates of competency and contractors' licenses as required by Rule 48 of I.E. Rules of 1937 for elec. installation work.

3. Before admission to the examination for the competency certificate, a person has to pass the wiremen's examination and has to spend a total period of at least five years in the Elec. Installation Practice. The examination consists of one written paper covering general elec. technology and installation practice and one oral test to find out the actual practical experience gained by the candidate during his work.

4. A candidate who produces a full technological certificate in Elec. Engineering from a recognised Technological Institute or a College is exempted from appearing for this examination but is not granted a competency certificate until such time as he obtains sufficient practical training in wiring and rectifying common defects in elect and power installations by working under a licensed elec. contractor in the Province of Bombay for at least one year.

5. No. degree, diploma or certificate which is not equal in standard to the L.E.E. of the V.J.T. Institute or the deploma in Electrical Engineering of the

Poona

Poona Engineering College is accepted by the Board for exempting a candidate from this examination. It is most unlikely that the higher certificate proposed to be granted by the Board of Technical and Industrial Training will come tot the standard of either I.E.E. of the V.J.T. Institute or the Diploma in Electrical Engineering of the Poona Engineering College and persons obtaining such certificates cannot, therefore, be exempted from appearing for the examination for the competency certificate.

6. The Competency Certificate issued by the Licensing Board, Bombay, is recognised all over India on account of the rigorous tests to which a candidate is put to before he obtains such certificate. The questions asked in the written and oral examinations are mostly practical and unless a person has obtained sufficient experience in the actual elec. installation work, it will not be easy for him to pass the examination.

7. If the competency certificates are issued freely to persons obtaining higher certificates of the Board of Technical and Industrial Training, the general standard of the competency certificate in this Province would be considerably lowered, which is neither advisable nor in the interest of Public safety. As a special case, however, it may be possible to give one year's credit to persons obtaining higher certificates of the Board of Technical and Industrial Training, but before such credit is given full information should be supplied with regard to the

following....

details:-

1 The syllabus for the examination.

2 Specimen papers of the examination.

3 Total number of hours spent in a year for taking the course.

4. Minimum percentage of marks required for passing.

Sd/-

Electrical Engineer to Govt.

ADS/-

El. Br.(1). P. W. D.

In its report, the Board of Technical and Industrial Training, Bombay, proposes that -

(a) the exam. held by the Licensing Board to grant certificates of competency and the contractors' licenses should be discontinued and instead, the Higher Certificate Course proposed to be introduced by the Board of Technical and Industrial Training should be accepted by the Licensing Board as qualifying a candidate for the Supervisor's license, provided he possesses the necessary practical training;

or

(b) in the alternative, the holders of the proposed Higher Certificate should be exempted from the exam. held by the Licensing Board.

2. The El Engr. to Govt. is against both the proposals mentioned above for the following reasons:-

(a) The exam. held by the Licensing Board is in accordance with certain rules issued under rule 48 of the I.E.Rules.

(b) Only those possessing a full technological certificate in Elecl. Engrg. from a Technological Institute or a College are exempted from the exam. refd. to in (a) above, but they are given Competency Certificates only

after....

after they have received practical training for one year under a licensed contractor in this Province.

(c) Those possessing qualifications, equal in standard to the L.E.E. of the V.J.T. Institute or the diploma in El. Engrg. of the Poona Engrg. College are also exempted from the said exam. The Higher Certificate proposed by the Board of Techl. and Industrial Training is, however, unlikely to come up to this standard.

(d) Grant of Competency Certificates to the holders of Higher Certificates, proposed will considerably lower down the general standard of competency in the Province which is not advisable in the interest of Public safety. The Electrical Engr. however suggests that one year's credit (i.e. 4 years of practical training instead of five years required now) may be given to the holders of Higher Certificate provided they furnish full information regarding the syllabus and specimen papers of their exam., the number of hours spent in a year for taking the course and percentage of marks for passing the exam. etc.

3. The detailed revised syllabus for the exams for Wiremen and Supervisors held by the Licensing Board will be found on pp.287-291 of file No.620/36 -IV. It will be seen therefrom that a candidate is put to a rigorous test before he obtains a Competency Certificate. It is not therefore desirable to discontinue the test nor is it advisable, in view

of

of the reasons given by the El. Engr.,to exempt from this test, the holders of Higher Certificate, ~~xxx~~ proposed. In the circumstances, if the proposal of the El. Engr. at 'P' above is to be accepted, the draft put up for approval may issue.

Id/-
28/10/46.

I agree with the El. Engr, of Govt.

Id/-
29/10/46.

I agree entirely with the El. Engr. to Govt. It is very advisable to ~~mention~~ maintain the high standards of the post.

Id/-
29/10/46.

620/36/40608.

(Below copy of No.G-2a/2542, dated the 8-10-46 from the El. Engr. to Govt.)

No.620/36 V-El.(1).

P.W.D.

B.C., 30th Octr. 1946.

Copy forwarded to the F.D. with ref. to its endt., dated the 2-9-46.

2. This Deptt. concurs in the views of the El Engr. to Govt.

Id/-
28-10-46.

By order of the Governor of Bombay,

Id/-
29/10/46.

Issued

Id/-
29/10/46.

Id/-
4/4/46.

ADS/-

Proposals in connection with the grant of certificates of competency and contractors' license.

The present practice followed by the Bombay Licensing Board.	Recommendations of the Standardisation Sub-Committee of the Board of Technical and Industrial Training, Bombay.	Remarks of the Director of Industries.	Electrical Engineer's remarks.
1.	2.	3.	4.
The Licensing Board, Bombay has been appointed to grant certificates of competency and contrac tors' licenses as required by Rules, 1937, for electric installation work. Before admission to the examination for the competency certificate, a person has to pass the wireman's examination and has to spend a total period of at least five years in the Elec. Instal lation practice. The examination consists of one written paper covering general elec. techno/ logy and installation practice and one oral test to find out the actual practical experience gained by the candidate during his work. A candidate who produces a full technological certificate	The existing Electricians course prescribed by the Board of Technical and Industrial Training which is of one year's duration should be re-designated as "Higher Certificate Course." The Higher Certificate course should be a accepted by the Bombay Licensing Board as qualifying a candidate for the Supervisors' license provided he possesses the necy. practical training; and the examination held by the Licensing Board for Supervisor's License should be discontinued. In the alternative,	The examination held by the Licensing Board is more practical in nature and there is an oral test conducted by it. There is no other difference between the two examination held by the two Boards mentioned in the preceding two columns. The candidates passing the Electricians examination of the Board of Technical and Industrial Training should, therefore, be exempted from the theory papers and asked to appear for the oral test only. In the alternative, the Board of Technical and Industrial Training	Though there appears to be some tech cal portion common between the syllabu ses for the Supervisor's Examination and the Electrician's course conducted by the Board of Technical and Industrial Training the object and the spirit of the two examinations are quite different. While a Supervisor requires only a general knowledge of elec. machinery but intimate knowledge of design and layout of elec. installation an electrician is required to have an intimate knowledge of construction and mechanism etc. in the elec. machinery without any knowledge of the lay-out, design, etc. of electric installations. In fact an electrician's work would really begin after a supervisor's work ends. Actually, the Supervisor's examination is purely a professional test for a person who has been in the pract

1.	2.	3.	4.
in Electrical Engineering from a recognised Technological Institute or a College is exempted from appearing for this examination but he is notgranted a competency certificate until such time as he obtains sufficient practical training in wiring and rectifying common defects in electric and power installations by working under a licensed elec. contractor in the Province of Bombay for at least one year. No. degree, diploma or certificate which is not equal in standard to the L.E.E. of the V.J.T. Institute or the diploma in Electrical Engineering of the Poona Engineering College is accepted by the Board for exempting a candidate from this examination.	the holders of the "Higher Certificate" should be exempted from the examination held by the Licensing Board, as both the examinations are of the same standard.	should suitably modify the nature of the examination papers and add an oral test if the Licensing Board is then prepared to exempt the candidates from appearing in their examination.	particular profession of elec. contracting for sufficiently long, time. For admission to Supervisor's examination a person is reqd. to have spent at least five years in the profession and the Licensing Board will under no circumstances consider a wireman who completes his electrician's course in one year, as a suitable person for supervisors examination. The Licensing Board has however since, decided and prepared to give credit of one year's practical experience to a candidate who obtains the proposed Higher Grade Certificate, after completing this course, for the purpose of admission to the Supervisors examination conducted by the Licensing Board. The existing electrician's course need not be modified in any manner by the Board of Technical and Industrial Training just to make it acceptable to the Licensing Board as it is admirably suited for the persons trained for industry. The existing professional test as conducted by the Licensing Board by way of written and oral examinations should be continued as it is and the granting of competency certificates be restricted to persons who are actually engaged in or purpose to take up elec. installation work. The holders of the proposed Higher Grade Certificate will however be granted the concession ment-

E. & I.D. 9893/27728/6678 & 4146.

EL. BR. P.W.D.

These papers deal with the recommendations of the Standardisation Sub-committee of the Board of Technical and Industrial Training, Bombay, in connection with the exams. held by the Bombay Licensing Board for the grant of certificates of competency and contractors' licenses. The statement at pp.

is self-explanatory. The El.Engr's remarks mentioned in the last column of the statement are based on the decisions taken by the Licensing Board. These papers may, therefore, be returned u.o. to the E. & I. Deptt., if appd., with the remarks that this Deptt. agrees with the views expressed by the El. Engr. to Govt.

Id/-
18/2/48.

Id/-N.P.G.
18/2/48.

U.O. to the E. & I.D. dated the 19/2/48.

No.EXI/ 4570 of 1948.
P.W.D. offices, Churchgate Street,
Fort, Bombay, 27th March 1949.

To

The Secretary to Government,
Public Works Department, Bombay.

Re:- Competency Certificates to Supervisors and Wiremen's Permits.

A number of persons holding Competency Certificate and Wiremen's permits from the Pakistan areas like Karachi and Lahore have come to Bombay, and in order to assist such persons in obtaining Competency Certificates and Wiremen's Permits issued by the Bombay Government, the Licensing Board at its last meeting decided that such refugees should be permitted to appear for an oral examination and that only a nominal fee of Rs.1/- should be charged for such examination, instead of the standatd fees laid down in the rules.

2. Since the existing rules do not provide for any such concession to any person appearing for the examination it is requested that Government may be pleased to approve the the above proposal.

3. It has been observed that the examinations for the grant of competency certificates in other Provinces are not as rigourous as those in the Bombay Province, and on account of this, the certificates issued by the Bombay Government are recognised in all other Provinces in India. In view of the lower standard of the examination in other Provinces, the Licensing Board, Bombay, has already decided that the competency certificates of other Provinces should not....

not be exchanged for the ones of the Bombay Province until these Provinces adopted the same syllabus and standard for their examinations. The question of reciprocal arrangement for the exchange of the competency certificates and adoption of uniform syllabus and standard for the examination has already been taken up with different Provinces, but so far no final decision has been arrived at.

Sd/-

Electrical Engineer to Govt.

620/36/15800.

El.BR. P. W. D.

Submitted.

2. The El. Engr's letter under refce is self-explanatory. The fees changed, according to rules (Vide Item 48 of Rules and Conditions for the Grant of Certificate of Competency and Permits etc.) for granting the Competency Certificate and Wiremens Permits are Rs. 25/- and Rs. 5/- respectively. In the circumstances explained by the El. Engr, the Licensing Board has decided to examine the refugees in oral examination only and a nominal fee of Re. 1/- is charged for this examination. The proposal of the El. Engr. may be approved in consultation with the F.D.

Id/-
12/4/48.

Id/-
12/4/48.

Secy. (I). This may be approved as a special case and this should apply only to refugees from Pakistan.

Id/-
13/4/48.

U.O. to F.D. dated 13-4-48. with the copy. fo the rules.

Repd to
Pl. relation to P. W. D.
Will- F. D.
Id
16-4

F.D.
A.

The P.W.D. proposal may be accepted as a special case. It is presumed that the loss of revenue to Govt. will be very small.

Id/-16/4/48.

Id/-
16/4/48.

U.O.R. to P.W.D. dated 16/4/48.

620/36/20008.

El. BCH. Public Works Department.

Submitted with reference to this Deptt U.O.R. dated the 13th April 1948.

2. With reference to the presumption made by the F.D., it may be stated that the loss of revenue to Govt. that will be incurred will depend upon the number of refugees so exempted from paying the standard fees. It is hoped that this number will not be very great.

3. The El.Engr. may be informed as per draft letter put up for approval.

Id/-
24/4/48.

Id/-
24/4/48.

Id/-
24/4/48. Secy.(I)

Id/-
27/4/48. H.M. P.W.D.

Accordingly
Id/-
28/4/48.

Id/-
19/4/48.

620/36/20008.

No.620/36-El.

Letter.

Public Works Deptt.
B.C., 30th April 1948.

To

The Electrical Engr. to Govt.

Subject:- Competency Certificates to Supervisors and Wiremen's Permits.

Reference:- Your letter No.Ex 1/4570, dated the 27-3-48.

2. Your proposal to permit the refugees, holding Competency Certificates and Wiremen's Permits, to appear for an oral examination for obtaining the certificates and ~~for~~ the permits issued by the Bombay Govt., at a nominal fee of Re.1 is approved as a special case. This concession is permissible only to refugees from Pakistan.

D.A.- Nil.

By order of the Governor of Bombay,

Copy, with a copy of the letter under reference forwarded to-

the Finance Deptt.

The Accountant General, Bombay.

Thro' the F.D.

Id/-
24/4/48.

Id/-
24/4/48.

Id/-
24/4/48.

ADS/-

VS
24-7-56